

Energy Transformation & Conservation Notes Review

Name: _____ Date: _____

Table: _____ Section: _____

- 1) What is the relationship between different forms of energy?
- 2) When you turn a toaster on, what happens to the electrical energy?
- 3) Describe the energy transformations that happen when you strike a match. List them in the order in which they occur.
- 4) State the law of conservation of energy in your own words.
- 5) Based on the theory of relativity, what must always be conserved?

Performance Task: Jumping Card

Procedure

1. Fold an index card in half.
2. In the edge opposite the fold, cut two slits that are about 2 cm long and 2 cm apart.
3. Keep the card folded and loop a rubber band through the slits.
4. With the fold toward you, gently open the card like a tent and flatten it against your desk.
5. Predict what will happen to the card if you let go, then test your prediction.

Analyze & Conclude

- 1) Describe what happened to the card in term of the different forms energy.
- 2) Based on your observations, what is the relationship between potential & kinetic energy.